



**THE HYDERABAD PUBLIC SCHOOL**  
**RAMANTHAPUR, HYDERABAD-13**

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**CLASS VI - MATHEMATICS – HOLIDAY HOMEWORK - WORKSHEET**

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**Topics: Mensuration & Ratio and Proportion**

1. Find the perimeter of each of the following shapes:
  - (a) A triangle of sides 12 cm, 5 cm and 13 cm.
  - (b) An equilateral triangle of side 8 cm.
  - (c) An isosceles triangle with equal sides 4 cm each and third side 3 cm.
  - (d) A square of side 10 cm
  - (e) A rectangle of sides 11 cm, 10 cm
  - (f) Triangle with sides measuring 10 cm, 14 cm and 15 cm.
  - (g) Regular hexagon of side 8 cm
  - (h) Regular pentagon of side 5 cm
2. Koustubh wants to cover the floor of a room 3 m wide and 4 m long by squared tiles. If each square tile is of side 0.5 m, then find the number of tiles required to cover the floor of the room.
3. Find the area in square meter of a piece of cloth 1 m 25 cm wide and 2 m long.
4. A room is 4 m long and 3 m 50 cm wide. How many square meters of carpet is needed to cover the floor of the room.
5. Find the areas of the squares whose sides are:
  - (a) 11 cm
  - (b) 12 m
6. Badri earns Rs 20000 in 10 days. How much will he earn in 30 days?
7. Determine if the following ratios form a proportion. Also, write the middle terms and extreme terms where the ratios form a proportion.
  - (a) 10 cm: 1 m and Rs 10: Rs 100
  - (b) 39 litres: 65 litres and 6 bottles: 10 bottles
  - (c) 2 kg: 50 kg and 25 g: 625 g
  - (d) 200 ml: 2.5 litre and Rs 4: Rs 50
8. In a School, out of 1220 students, 300 are girls. Find the ratio of
  - (a) Number of girls to the total number of students.
  - (b) Number of boys to the number of girls.
  - (c) Number of boys to the total number of students.
9. Find the ratio of the following:
  - (a) 63 to 45
  - (b) 256 to 512
  - (c) 66 km to 121 km
  - (d) 3 minutes to 45 minutes
10. Cost of a dozen bananas is Rs 180 and cost of 8 lemons is Rs 56. Find the ratio of the cost of a banana to the cost of a lemon.